

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-175591

(43)Date of publication of application : 02.07.1999

(51)Int.Cl.

G06F 17/60

(21)Application number : 09-336723

(71)Applicant : NEC CORP.

(22)Date of filing : 08.12.1997

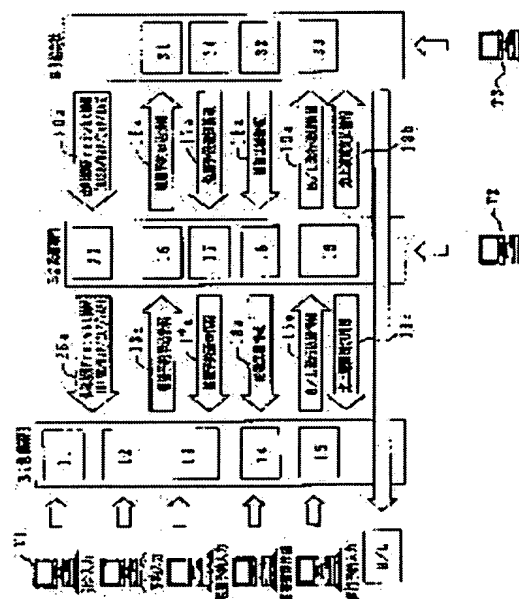
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(54) BOOKING MANAGEMENT SYSTEM IN EXPORT BUSINESS, BOOKING MANAGEMENT METHOD AND STORAGE MEDIUM RECORDING BOOKING MANAGEMENT METHOD

(57)Abstract:

PROBLEM TO BE SOLVED: To make the entire business efficient and to reduce the correction trouble due to input mistakes, etc., by reusing information that is inputted within and without a company.

SOLUTION: This system consists of a business department, a physical distribution company and a shipping company systematically, each department has a 1st controlling part T1 to a 3rd controlling part T3 respectively, and each controlling part T1 to T3 manages data of each organization. Data which are transmitted and received among organizations undergo data exchange by a file transfer protocol through a network. In such a case, application data of shipping booking which is inputted to the part T1 is sent to the part T3 through the part T2, a ship is loaded based on the application data of the shipping booking, ship loading result data which is inputted to the part T3 is sent to the part T1 through the part 2, the issue request data of a bill of lading is sent to the part T3 through the part T2 and the parts T1 to T3 have the same data.



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CLAIMS

[Claim(s)]

[Claim 1]It consists of the 1st control section, 2nd control section, and 3rd control section characterized by comprising the following, A booking management system in export business which said 1st control section, the 2nd control section, and the 3rd control section equipped with one or more data input units and output units via a predetermined circuit and to which said 1st control section, the 2nd control section, and the 3rd control section were mutually connected by a communication line.

A booking application processing means to transmit application data of a booking inputted into said 1st control section at the 1st control section to the 2nd control section.

A shipping document preparing means which receives loading actual results data loaded based on contract information inputted into the 1st control section, and application data of said booking from the 2nd control section, and draws up a shipping document.

A bill-of-lading issuance request processing means to transmit issuance request data of a bill of lading to the 2nd control section from issuance request data of a bill of lading inputted into the 1st control section based on said loading actual results data is formed, A booking processing means to receive application data of said booking from the 1st control section in said 2nd control section, and to transmit this data to the 3rd control section.

A loading achievement information processing means to receive said loading actual results data from the 3rd control section, and to transmit this data to the 1st control section, Receive issuance request data of said bill of lading from the 1st control section, and it is formed by bill-of-lading issue processing means to transmit this data to the 3rd control section, and to said 3rd control section. A processing means of application data of a booking to receive and manage application data of said booking from the 2nd control section, A processing means of loading actual results data to transmit loading actual results data inputted from said 3rd control section to the 2nd control section, and an issue processing means of a bill of lading which receives and processes issuance request data of said bill of lading from the 2nd control section.

[Claim 2]Booking confirmation data reserved based on application data of said booking, It is inputted into the 3rd control section, and a transmitting means of booking confirmation data transmitted to the 2nd control section is provided in said 3rd control section, and this booking confirmation data to the 2nd control section. Receive said booking confirmation data from the 3rd control section, and it is formed by booking notification information processing means to transmit this data to the 1st control section, and in the 1st control section. A booking management system in the export business according to claim 1 processing by an account booking application processing means of back to front by which said booking confirmation data was received from the 2nd control section.

[Claim 3]A booking management system in the export business according to claim 1 or 2, wherein a transportation information processing means classified by destination which processes a transportation cost data classified by destination sent from the 3rd control section is provided in said 2nd control section.

[Claim 4]A booking management system in the export business according to claim 3, wherein an

inquiry information processing means which calculates ocean freight based on inquiry data inputted into the 1st control section and a transportation cost data classified by destination obtained from said 2nd control section is provided in said 1st control section.

[Claim 5]A booking management system in the export business according to claim 4, wherein a contract information processing means to process contract data based on contract data inputted into the 1st control section and a cost data created by said inquiry information processing means is formed in said 1st control section.

[Claim 6]A booking management system in export business given in any of claims 1 thru/or 5 having data with respectively same said 1st control section, the 2nd control section, and the 3rd control section they are.

[Claim 7]Consist of the 1st control section, 2nd control section, and 3rd control section, and said 1st control section, the 2nd control section, and the 3rd control section are provided with one or more data input units and output units via a predetermined circuit, Said 1st control section, the 2nd control section, and the 3rd control section are the methods of booking management in export business mutually connected by a communication line, Application data of a booking inputted into said 1st control section is transmitted to the 3rd control section via the 2nd control section, It is loaded based on application data of said booking, and loading actual results data inputted into the 3rd control section is transmitted to the 1st control section via the 2nd control section, A method of booking management in export business transmitting issuance request data of a bill of lading inputted into the 1st control section to the 3rd control section via the 2nd control section, and having data with respectively same said 1st control section, the 2nd control section, and the 3rd control section.

[Claim 8]Consist of the 1st control section, 2nd control section, and 3rd control section, and said 1st control section, the 2nd control section, and the 3rd control section are provided with one or more data input units and output units via a predetermined circuit, Said 1st control section, the 2nd control section, and the 3rd control section are the recording media which recorded a computer program of a booking management system in export business mutually connected by a communication line, A booking application process of transmitting application data of a booking inputted into the 1st control section at a program for said 1st control section to the 2nd control section, A shipping document creation process of receiving loading actual results data loaded based on contract information inputted into the 1st control section, and application data of said booking from the 2nd control section, and drawing up a shipping document, Bill-of-lading issuance request down stream processing which transmits issuance request data of a bill of lading to the 2nd control section from issuance request data of a bill of lading inputted into the 1st control section based on said loading actual results data is provided, Booking down stream processing which application data of said booking is received from the 1st control section in a program for said 2nd control section, and transmits this data to the 3rd control section, Loading achievement information down stream processing which said loading actual results data is received from the 3rd control section, and transmits this data to the 1st control section, A bill-of-lading issue processing process of receiving issuance request data of said bill of lading from the 1st control section, and transmitting this data to the 3rd control section is established, Down stream processing of application data of a booking which receives and manages application data of said booking from the 2nd control section in a program for said 3rd control section, Down stream processing of loading actual results data which transmits loading actual results data inputted from said 3rd control section to the 2nd control section, A recording medium which recorded a booking management method in export business recording said each process in order to make a computer perform a series of processings which consist of an issue processing process of a bill of lading which receives and processes issuance request data of said bill of lading from the 2nd control section.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention]This invention relates to the recording medium on the method of the booking management in export business, and the computer by which this method was written in which can be read, and its system, It is related with the method of the booking management in the suitable export business for information exchange with the shipping company of the company which has a brokerage department and a distribution arm especially, and unification management of information, and its system.

[0002]

[Description of the Prior Art]Conventionally, there are old nature of the shipping company itself, etc. about this kind of business, systematization is behind dramatically, and even if systematized, a part of export business will be supported. Although this is simplified by accumulating complicated ocean freight calculation as a database at JP,63-241656,A and JP,62-263591,A, If it sees from the whole export business, such art will be simplification of the business of the dramatically limited portion, and will not follow up the whole export business. Although complicated shipping document creation is put in a database similarly and the art which draws up a shipping document automatically is explained by JP,63-251238,A, this is systematization only in a part of [which is called document preparing] business similarly, and is not linked with other business.

[0003]Since information is not unified even if other business is performed manually or it is systematized, since only the inside of the business according to each does not link with other business in such conventional technology even if systematized, The problem of inputting the same data into a duplex and Mie in many sections has occurred. Since the export business of the fault of such conventional technology itself is complicated, each business is specialized, and it seems that it was hard to be recognized as a fault since there were few people who understand the whole business.

[0004]Although it has the same data of each other if their eyes are turned to external, and the large increase in efficiency of business is realizable if it is used mutually even if it succeeds in systematization of internal operations to some extent, The system of its company was used only in its company, and an external connection had the complicatedness that data had to be inputted again in order to use handicraft or another system.

[0005]Namely, since each business is independently systematized [the above-mentioned conventional export control business] in the brokerage department, in spite of being able to perform reuse of data, Since the same data is inputted into a double input and Mie and also business is similarly systematized independently with the brokerage department in the distribution arm, Since sharing of the data between Ryobe gates was not done, a series of export business kept separately independently, there is no relevance of data and there was a fault that reuse of data was not performed.

[0006]In order that data exchange with a shipping company hardly being performed and the system which became independent to above each even if carried out may not have the relevance of data, In the business which takes an external system and interface after all, since

the entry of data was performed again, there is no relevance of data with an external system, and there was a fault that reuse of data was not performed.

[0007]

[Problem(s) to be Solved by the Invention]The purpose of this invention improves the fault of the above-mentioned conventional technology, and provides the method of the booking management in the new export business which shares in the company / external information and data, and increases the efficiency of business from the following viewpoints, and its system in a series of business which starts export business especially.

[0008]namely, (**) -- in a series of business, such as an inquiry, a contract, a booking, shipping document creation, and a B/L (bill of lading) issuance request of a brokerage department, the double input of data is abolished and the information inputted at the upper process is used effectively at a lower process.

(**) Use information effectively in a series of business, such as a booking, loading management by results, B/L issue, and ocean freight payment of a distribution arm.

(**) Perform data exchange with a shipping company and use the information in the above-mentioned business effectively.

[0009]Other purposes of this invention provide the recording medium on the computer by which the method of the booking management in export business was written in which can be read.

[0010]

[Means for Solving the Problem]Fundamentally, this invention adopts technical composition which was indicated below in order to attain the above-mentioned purpose. Namely, the 1st mode of a booking management system in export business concerning this invention, Consist of the 1st control section, 2nd control section, and 3rd control section, and said 1st control section, the 2nd control section, and the 3rd control section are provided with one or more data input units and output units via a predetermined circuit, Mutually, by a communication line, said 1st control section, the 2nd control section, and the 3rd control section are the booking management systems in connected export business, and to said 1st control section. A booking application processing means to transmit application data of a booking inputted into the 1st control section to the 2nd control section, A shipping document preparing means which receives loading actual results data loaded based on contract information inputted into the 1st control section, and application data of said booking from the 2nd control section, and draws up a shipping document, A bill-of-lading issuance request processing means to transmit issuance request data of a bill of lading to the 2nd control section from issuance request data of a bill of lading inputted into the 1st control section based on said loading actual results data is formed, A booking processing means to receive application data of said booking from the 1st control section in said 2nd control section, and to transmit this data to the 3rd control section, A loading achievement information processing means to receive said loading actual results data from the 3rd control section, and to transmit this data to the 1st control section, Receive issuance request data of said bill of lading from the 1st control section, and it is formed by bill-of-lading issue processing means to transmit this data to the 3rd control section, and to said 3rd control section. A processing means of application data of a booking to receive and manage application data of said booking from the 2nd control section, A processing means of loading actual results data to transmit loading actual results data inputted from said 3rd control section to the 2nd control section, An issue processing means of a bill of lading which receives and processes issuance request data of said bill of lading from the 2nd control section is a booking management system in export business established, and the 2nd mode, Booking confirmation data reserved based on application data of said booking, It is inputted into the 3rd control section, and a transmitting means of booking confirmation data transmitted to the 2nd control section is provided in said 3rd control section, and this booking confirmation data to the 2nd control section. Receive said booking confirmation data from the 3rd control section, and it is formed by booking notification information processing means to transmit this data to the 1st control section, and in the 1st control section. By an account booking application processing means of back to front received from the 2nd control section, are said booking confirmation data a booking management system in export business processed, and the 3rd mode, It is a booking

management system in export business on which a transportation information processing means classified by destination which processes a transportation cost data classified by destination sent from the 3rd control section is provided in said 2nd control section, The 4th mode is a booking management system in export business established, and an inquiry information processing means which calculates ocean freight to said 1st control section based on inquiry data inputted into the 1st control section and a transportation cost data classified by destination obtained from said 2nd control section again, The 5th mode is a booking management system in export business established, and a contract information processing means to process contract data to said 1st control section based on contract data inputted into the 1st control section and a cost data created by said inquiry information processing means the 6th mode, Said 1st control section, the 2nd control section, and the 3rd control section are the booking management systems in export business having the same data, respectively.

[0011]A mode of a method of booking management in export business concerning this invention, Consist of the 1st control section, 2nd control section, and 3rd control section, and said 1st control section, the 2nd control section, and the 3rd control section are provided with one or more data input units and output units via a predetermined circuit, Said 1st control section, the 2nd control section, and the 3rd control section are the methods of booking management in export business mutually connected by a communication line, Application data of a booking inputted into said 1st control section is transmitted to the 3rd control section via the 2nd control section, It is loaded based on application data of said booking, and loading actual results data inputted into the 3rd control section is transmitted to the 1st control section via the 2nd control section, Transmitting issuance request data of a bill of lading inputted into the 1st control section to the 3rd control section via the 2nd control section, said 1st control section, the 2nd control section, and the 3rd control section have the same data, respectively.

[0012]A mode of a recording medium which recorded a computer program of a booking management system in export business concerning this invention, Consist of the 1st control section, 2nd control section, and 3rd control section, and said 1st control section, the 2nd control section, and the 3rd control section are provided with one or more data input units and output units via a predetermined circuit, Said 1st control section, the 2nd control section, and the 3rd control section are the recording media which recorded a computer program of a booking management system in export business mutually connected by a communication line, and the following is comprised:

Booking application down stream processing which transmits application data of a booking inputted into the 1st control section at a program for said 1st control section to the 2nd control section.

A shipping document creation process of receiving loading actual results data loaded based on contract information inputted into the 1st control section, and application data of said booking from the 2nd control section, and drawing up a shipping document.

Bill-of-lading issuance request down stream processing which transmits issuance request data of a bill of lading to the 2nd control section from issuance request data of a bill of lading inputted into the 1st control section based on said loading actual results data is provided, A booking processing means to receive application data of said booking from the 1st control section in a program for said 2nd control section, and to transmit this data to the 3rd control section.

Loading achievement information down stream processing which said loading actual results data is received from the 3rd control section, and transmits this data to the 1st control section.

A bill-of-lading issue processing process of receiving issuance request data of said bill of lading from the 1st control section, and transmitting this data to the 3rd control section is established, Down stream processing of application data of a booking which receives and manages application data of said booking from the 2nd control section in a program for said 3rd control section, Down stream processing of loading actual results data which transmits loading actual results data inputted from said 3rd control section to the 2nd control section, and an issue processing process of a bill of lading which receives and processes issuance request data of said bill of lading from the 2nd control section.

[0013]

[Embodiment of the Invention] In the system which can transmit and receive data and in which brokerage department B1—/distribution—arm B-2 / shipping company B3 is connected mutually, The transportation information processing means 20 classified by destination which receives the Freight information 20a from the shipping company B3, and provides the brokerage department B1 with the Freight information 20a according to destination used as the base of profit calculation, A booking processing means 16 to receive the booking application information 13a from the brokerage department B1, and to transmit the booking application information 16a to the suitable shipping company B3, A booking notification information processing means 17 to receive the booking notification information 17a which is the reply to a booking application from the shipping company B3, and to transmit this information 17a to the brokerage department B1, A loading achievement information processing means 18 to receive the loading achievement information 18a which is actual loading information from the shipping company B3, and to transmit this information 18a to the brokerage department B1, Receive the issuance request information 15a on B/L from the brokerage department B1, and the B/L issuance request information 19a is transmitted to the suitable shipping company B3, And a bill-of-lading issue processing means 19 to transmit the ocean freight payment information 19b to the suitable shipping company B3, and to transmit the ocean freight claim information 19c to the brokerage department B1, the inquiry information processing means 11 which manages the inquiry information from a buyer, and a contract information processing means 12 to manage contract information, A booking application processing means 13 to input the booking application information 13a and to transmit this information 13a to distribution—arm B-2, It comprises the shipping document preparing means 14 which performs shipping document creation processing, and the loading flotation request processing means 15 to input the issuance request of B/L and to transmit this information 15a to distribution—arm B-2, The unification of data and central control in connection with the inquiry, conclusion, the booking, document preparing, and B/L issue which is the work of a series of the export business in the brokerage department B1 are performed, And the unification of data and central control in connection with booking and B/L issue / loading achievement information management in a distribution arm are performed, and the increase in efficiency of business is further realized by using effectively the data between the 3 persons of the brokerage department B1, distribution—arm B-2, and the shipping company B3.

[0014]

[Example] Below, the example of the recording medium on the method of the booking management in the export business concerning this invention and the computer by which this method was written in which can be read, and its system is explained in detail, referring to drawings. Drawing 1 is the example of the booking management system in the export business concerning this invention a shown block diagram, and to drawing 1. It consists of the 1st control section (the 1st terminal) T1, the 2nd control section (the 2nd terminal) T2, and the 3rd control-section (3rd terminal) T3, Said 1st control section T1, the 2nd control section T2, and 3rd control-section T3 are provided with an entry-of-data device and an output unit, respectively, Mutually, by a communication line, said 1st control section T1, the 2nd control section T2, and 3rd control-section T3 are the booking management systems in the connected export business, and to said 1st control section T1. A booking application processing means 13 to transmit the application data 13a of a booking inputted into the 1st control section to the 2nd control section T2, The shipping document preparing means 14 which receives the loading actual results data 18a loaded based on the contract information inputted into the 1st control section, and the application data 13a of said booking from the 2nd control section T2, and draws up a shipping document, From the issuance request data of a bill of lading inputted into the 1st control section T1 based on said loading actual results data 18a, it is formed by bill-of-lading issuance request processing means 15 to transmit the issuance request data 15a of a bill of lading to the 2nd control section T2, and to said 2nd control section T2. A booking processing means 16 to receive the application data 13a of said booking from the 1st control section T1, and to transmit this data 13a to 3rd control-section T3, A loading achievement information processing means 18

to receive said loading actual results data 18a from 3rd control-section T3, and to transmit this data 18a to the 1st control section T1, A bill-of-lading issue processing means 19 to receive the issuance request data 15a of said bill of lading from the 1st control section T1, and to transmit this data 15a to 3rd control-section T3 is formed, A processing means 31 of the application data of a booking to receive and manage the application data 16a of said booking from the 2nd control section T2 in said 3rd control-section T3, A processing means 32 of loading actual results data to transmit the loading actual results data inputted from said 3rd control-section T3 to the 2nd control section T2, The booking management system in the export business in which the issue processing means 33 of the bill of lading which receives and processes the issuance request data 19a of said bill of lading from the 2nd control section T2 is formed is shown.

[0015]The booking confirmation data 17a reserved based on the application data 16a of said booking, It is inputted into 3rd control-section T3, and the transmitting means 34 of booking confirmation data which transmits this booking confirmation data 17a to the 2nd control section T2 is formed in said 3rd control-section T3, A booking notification information processing means 17 to receive said booking confirmation data 17a from 3rd control-section T3, and to transmit this data to the 1st control section T1 is formed in the 2nd control section T2, The booking management system in the export business processed by an account booking application processing means 13 of back to front by which said booking confirmation data 17a was received from the 2nd control section T2 is shown in the 1st control section T1.

[0016]The booking management system in the export business on which the transportation information processing means 20 classified by destination which processes the transportation cost data 20a classified by destination sent from 3rd control-section T3 is formed in said 2nd control section T2 is shown. The booking management system in the export business on which the inquiry information processing means 11 which calculates ocean freight based on the inquiry data inputted into the 1st control section T1 and the transportation cost data 20a classified by destination obtained from said 2nd control section T2 is formed in said 1st control section T1 is shown.

[0017]Now, systematically, it consists of a brokerage department, a distribution arm, and a shipping company, and these sections have the 1st control section T1, the 2nd control section T2, and 3rd control-section T3, respectively, and each control section consists of systems of this invention so that the data of each organization may be managed. The data sent and received among organizations performs data exchange by the file transfer protocol through a network.

[0018]Below, each means to constitute this system is explained. In the inquiry information processing means 11, ocean freight is calculated based on the Freight information 20a classified by destination, and registration and management as profit information at the time of an inquiry are performed. By the contract information processing means 12, registration and management as profit information at the time of a contract are performed by extracting what resulted in conclusion among the above-mentioned inquiries, considering it as contract information, and inputting additional information.

[0019]By the booking application processing means 13, the request to registration and management, and the distribution arm of booking information is performed by extracting a required thing from the above-mentioned contract information, and inputting additional information. In the shipping document preparing means 14, automatic layout of a shipping document is performed based on the above-mentioned contract information, and a booking/notification information, and preparing various appearance further performs quick creation of a shipping document.

[0020]In the bill-of-lading issuance request processing means 15, the request to registration and management, and distribution-arm B-2 of B/L issuance request information is performed by extracting a required thing from the loading achievement information 18a, and inputting additional information. In the booking processing means 16, the booking application information 13a from a brokerage department is received, and registration and management of are done. Next, the suitable shipping company B3 is chosen, additional information is inputted, it transmits to a shipping company, and this information is registered and managed.

[0021]In the booking notification information processing means 17, the data of request-to-print-

out-files application information which receives the booking notification information 17a from a shipping company, and has already been inputted is updated, and it registers and manages, and also transmits to the brokerage department B1. In the loading achievement information processing means 18, by receiving the loading achievement information 18a from the shipping company B3, and also inputting additional information, it transmits to the brokerage department B1, and registration and management of this information are performed.

[0022]In the bill-of-lading issue processing means 19, by receiving the B/L issuance request information 15a from the brokerage department B1, and inputting additional information, it transmits to a shipping company and registration and management of this information are performed. In the transportation information processing means 20 classified by destination, from a shipping company, reception, and registration and management are performed, and also the Freight information 20a classified by destination is transmitted to a brokerage department.

[0023]And the inquiry which is the business of a series [brokerage department] of export by each means 11-15 of a oneself section, Business, such as a contract, a booking, shipping document creation, and a B/L issuance request, is performed, and a distribution arm also performs business, such as processing of the booking application from a brokerage department, management of a loading track record, and processing of B/L issue, by each means 16-20. A shipping company performs business, such as processing of the booking from a distribution arm, management of loading achievement information, B/L issue, and payment of ocean freight.

[0024]Thus, this invention consists of the 1st control section, 2nd control section, and 3rd control section, Said 1st control section, the 2nd control section, and the 3rd control section are provided with an entry-of-data device and an output unit, respectively, Said 1st control section, the 2nd control section, and the 3rd control section are the method of the booking management in the export business mutually connected by the communication line, or its system, The application data of a booking inputted into said 1st control section is transmitted to the 3rd control section via the 2nd control section, It is loaded based on the application data of said booking, and the loading actual results data inputted into the 3rd control section is transmitted to the 1st control section via the 2nd control section, Transmitting the issuance request data of a bill of lading inputted into the 1st control section to the 3rd control section via the 2nd control section, said 1st control section, the 2nd control section, and the 3rd control section have the same data.

[0025]Each means of this invention may be constituted from a computer program, and may be recorded on a recording medium so that read-out is possible. Namely, for the program for said 1st control section. The booking application down stream processing 13 which transmits the application data of a booking inputted into the 1st control section to the 2nd control section, The shipping document creation process 14 of receiving the loading actual results data loaded based on the contract information inputted into the 1st control section, and the application data of said booking from the 2nd control section, and drawing up a shipping document, The bill-of-lading issuance request down stream processing 15 which transmits the issuance request data of a bill of lading to the 2nd control section from the issuance request data of a bill of lading inputted into the 1st control section based on said loading actual results data is formed, The booking down stream processing 16 which the application data of said booking is received from the 1st control section in the program for said 2nd control section, and transmits this data to the 3rd control section, The loading achievement information down stream processing 18 which said loading actual results data is received from the 3rd control section, and transmits this data to the 1st control section, The bill-of-lading issue processing process 19 of receiving the issuance request data of said bill of lading from the 1st control section, and transmitting this data to the 3rd control section is established, The down stream processing 31 of the application data of a booking which receives and manages the application data of said booking from the 2nd control section in the program for said 3rd control section, The down stream processing 32 of loading actual results data which transmits the loading actual results data inputted from said 3rd control section to the 2nd control section, In order to make a computer perform a series of processings which consist of the issue processing process 33 of the bill of lading which receives and processes the issuance request data of said bill of lading from the 2nd control section, it

may constitute from on the computer which recorded said each process as a recording medium which can be read.

[0026]

[Effect of the Invention] Since this invention is constituted as mentioned above, it does the following effects so. The 1st effect is the increase in efficiency of the whole business being able to realize the information inputted by in the company and an external ones by reusing effectively, and being able to reduce the time and effort of correction by an input mistake etc.

[0027] This is because all the data is in cooperation by in the company and an external one and useless work, such as a double input of the same data and the Mie input, becomes unnecessary. The 2nd effect is that the increase in efficiency of business is made by using the past data effectively. The reason is that the data inputted in the past is called and only portions (a loading stage, quantity, the amount of money, etc.) to be corrected input, and is because reduction of an input mistake and useless input operation become unnecessary.

[0028] The 3rd effect is dramatically useful for planning of a future sales strategy etc. by analyzing the past track record. The reason will be because profit and loss change how and comparison with the mere dealings with the same past which can grasp can also be performed by various kinds of elements (a market condition, an exchange rate, etc.), if it thinks by one dealings, since the information from an inquiry to actual loading is managed in a unified manner. If it analyzes for every specific destination country, it will be because analysis by a time series is also possible by also being able to grasp the feature for every market and moreover comparing with the past information.

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PRIOR ART

[Description of the Prior Art]Conventionally, there are old nature of the shipping company itself, etc. about this kind of business, systematization is behind dramatically, and even if systematized, a part of export business will be supported. Although this is simplified by accumulating complicated ocean freight calculation as a database at JP,63-241656,A and JP,62-263591,A, If it sees from the whole export business, such art will be simplification of the business of the dramatically limited portion, and will not follow up the whole export business. Although complicated shipping document creation is put in a database similarly and the art which draws up a shipping document automatically is explained by JP,63-251238,A, this is systematization only in a part of [which is called document preparing] business similarly, and is not linked with other business.

[0003]Since information is not unified even if other business is performed manually or it is systematized, since only the inside of the business according to each does not link with other business in such conventional technology even if systematized, The problem of inputting the same data into a duplex and Mie in many sections has occurred. Since the export business of the fault of such conventional technology itself is complicated, each business is specialized, and it seems that it was hard to be recognized as a fault since there were few people who understand the whole business.

[0004]Although it has the same data of each other if their eyes are turned to external, and the large increase in efficiency of business is realizable if it is used mutually even if it succeeds in systematization of internal operations to some extent, The system of its company was used only in its company, and an external connection had the complicatedness that data had to be inputted again in order to use handicraft or another system.

[0005]Namely, since each business is independently systematized [the above-mentioned conventional export control business] in the brokerage department, in spite of being able to perform reuse of data, Since the same data is inputted into a double input and Mie and also business is similarly systematized independently with the brokerage department in the distribution arm, Since sharing of the data between Ryobe gates was not done, a series of export business kept separately independently, there is no relevance of data and there was a fault that reuse of data was not performed.

[0006]In order that data exchange with a shipping company hardly being performed and the system which became independent to above each even if carried out may not have the relevance of data, In the business which takes an external system and interface after all, since the entry of data was performed again, there is no relevance of data with an external system, and there was a fault that reuse of data was not performed.

[Translation done.]

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EFFECT OF THE INVENTION

[Effect of the Invention] Since this invention is constituted as mentioned above, it does the following effects so. The 1st effect is the increase in efficiency of the whole business being able to realize the information inputted by in the company and an external one by reusing effectively, and being able to reduce the time and effort of correction by an input mistake etc.

[0027] This is because all the data is in cooperation by in the company and an external one and useless work, such as a double input of the same data and the Mie input, becomes unnecessary. The 2nd effect is that the increase in efficiency of business is made by using the past data effectively. The reason is that the data inputted in the past is called and only portions (a loading stage, quantity, the amount of money, etc.) to be corrected input, and is because reduction of an input mistake and useless input operation become unnecessary.

[0028] The 3rd effect is dramatically useful for planning of a future sales strategy etc. by analyzing the past track record. The reason will be because profit and loss change how and comparison with the mere dealings with the same past which can grasp can also be performed by various kinds of elements (a market condition, an exchange rate, etc.), if it thinks by one dealings, since the information from an inquiry to actual loading is managed in a unified manner. If it analyzes for every specific destination country, it will be because analysis by a time series is also possible by also being able to grasp the feature for every market and moreover comparing with the past information.

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TECHNICAL PROBLEM

[Problem(s) to be Solved by the Invention]The purpose of this invention improves the fault of the above-mentioned conventional technology, and provides the method of the booking management in the new export business which shares in the company / external information and data, and increases the efficiency of business from the following viewpoints, and its system in a series of business which starts export business especially.

[0008]namely, (**) -- in a series of business, such as an inquiry, a contract, a booking, shipping document creation, and a B/L (bill of lading) issuance request of a brokerage department, the double input of data is abolished and the information inputted at the upper process is used effectively at a lower process.

(**) Use information effectively in a series of business, such as a booking, loading management by results, B/L issue, and ocean freight payment of a distribution arm.

(**) Perform data exchange with a shipping company and use the information in the above-mentioned business effectively.

[0009]Other purposes of this invention provide the recording medium on the computer by which the method of the booking management in export business was written in which can be read.

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MEANS

[Means for Solving the Problem]Fundamentally, this invention adopts technical composition which was indicated below in order to attain the above-mentioned purpose. Namely, the 1st mode of a booking management system in export business concerning this invention, Consist of the 1st control section, 2nd control section, and 3rd control section, and said 1st control section, the 2nd control section, and the 3rd control section are provided with one or more data input units and output units via a predetermined circuit, Mutually, by a communication line, said 1st control section, the 2nd control section, and the 3rd control section are the booking management systems in connected export business, and to said 1st control section. A booking application processing means to transmit application data of a booking inputted into the 1st control section to the 2nd control section, A shipping document preparing means which receives loading actual results data loaded based on contract information inputted into the 1st control section, and application data of said booking from the 2nd control section, and draws up a shipping document, A bill-of-lading issuance request processing means to transmit issuance request data of a bill of lading to the 2nd control section from issuance request data of a bill of lading inputted into the 1st control section based on said loading actual results data is formed, A booking processing means to receive application data of said booking from the 1st control section in said 2nd control section, and to transmit this data to the 3rd control section, A loading achievement information processing means to receive said loading actual results data from the 3rd control section, and to transmit this data to the 1st control section, Receive issuance request data of said bill of lading from the 1st control section, and it is formed by bill-of-lading issue processing means to transmit this data to the 3rd control section, and to said 3rd control section. A processing means of application data of a booking to receive and manage application data of said booking from the 2nd control section, A processing means of loading actual results data to transmit loading actual results data inputted from said 3rd control section to the 2nd control section, An issue processing means of a bill of lading which receives and processes issuance request data of said bill of lading from the 2nd control section is a booking management system in export business established, and the 2nd mode, Booking confirmation data reserved based on application data of said booking, It is inputted into the 3rd control section, and a transmitting means of booking confirmation data transmitted to the 2nd control section is provided in said 3rd control section, and this booking confirmation data to the 2nd control section. Receive said booking confirmation data from the 3rd control section, and it is formed by booking notification information processing means to transmit this data to the 1st control section, and in the 1st control section. By an account booking application processing means of back to front received from the 2nd control section, are said booking confirmation data a booking management system in export business processed, and the 3rd mode, It is a booking management system in export business on which a transportation information processing means classified by destination which processes a transportation cost data classified by destination sent from the 3rd control section is provided in said 2nd control section, The 4th mode is a booking management system in export business established, and an inquiry information processing means which calculates ocean freight to said 1st control section based on inquiry data inputted into the 1st control section and a transportation cost data classified by destination

obtained from said 2nd control section again, The 5th mode is a booking management system in export business established, and a contract information processing means to process contract data to said 1st control section based on contract data inputted into the 1st control section and a cost data created by said inquiry information processing means the 6th mode, Said 1st control section, the 2nd control section, and the 3rd control section are the booking management systems in export business having the same data, respectively.

[0011]A mode of a method of booking management in export business concerning this invention, Consist of the 1st control section, 2nd control section, and 3rd control section, and said 1st control section, the 2nd control section, and the 3rd control section are provided with one or more data input units and output units via a predetermined circuit, Said 1st control section, the 2nd control section, and the 3rd control section are the methods of booking management in export business mutually connected by a communication line, Application data of a booking inputted into said 1st control section is transmitted to the 3rd control section via the 2nd control section, It is loaded based on application data of said booking, and loading actual results data inputted into the 3rd control section is transmitted to the 1st control section via the 2nd control section, Transmitting issuance request data of a bill of lading inputted into the 1st control section to the 3rd control section via the 2nd control section, said 1st control section, the 2nd control section, and the 3rd control section have the same data, respectively.

[0012]A mode of a recording medium which recorded a computer program of a booking management system in export business concerning this invention, Consist of the 1st control section, 2nd control section, and 3rd control section, and said 1st control section, the 2nd control section, and the 3rd control section are provided with one or more data input units and output units via a predetermined circuit, Said 1st control section, the 2nd control section, and the 3rd control section are the recording media which recorded a computer program of a booking management system in export business mutually connected by a communication line, and the following is comprised:

Booking application down stream processing which transmits application data of a booking inputted into the 1st control section at a program for said 1st control section to the 2nd control section.

A shipping document creation process of receiving loading actual results data loaded based on contract information inputted into the 1st control section, and application data of said booking from the 2nd control section, and drawing up a shipping document.

Bill-of-lading issuance request down stream processing which transmits issuance request data of a bill of lading to the 2nd control section from issuance request data of a bill of lading inputted into the 1st control section based on said loading actual results data is provided, A booking processing means to receive application data of said booking from the 1st control section in a program for said 2nd control section, and to transmit this data to the 3rd control section.

Loading achievement information down stream processing which said loading actual results data is received from the 3rd control section, and transmits this data to the 1st control section.

A bill-of-lading issue processing process of receiving issuance request data of said bill of lading from the 1st control section, and transmitting this data to the 3rd control section is established, Down stream processing of application data of a booking which receives and manages application data of said booking from the 2nd control section in a program for said 3rd control section, Down stream processing of loading actual results data which transmits loading actual results data inputted from said 3rd control section to the 2nd control section, and an issue processing process of a bill of lading which receives and processes issuance request data of said bill of lading from the 2nd control section.

[0013]

[Embodiment of the Invention]In the system which can transmit and receive data and in which brokerage department B1—/distribution—arm B-2 / shipping company B3 is connected mutually, The transportation information processing means 20 classified by destination which receives the Freight information 20a from the shipping company B3, and provides the brokerage department B1 with the Freight information 20a according to destination used as the base of profit

calculation, A booking processing means 16 to receive the booking application information 13a from the brokerage department B1, and to transmit the booking application information 16a to the suitable shipping company B3, A booking notification information processing means 17 to receive the booking notification information 17a which is the reply to a booking application from the shipping company B3, and to transmit this information 17a to the brokerage department B1, A loading achievement information processing means 18 to receive the loading achievement information 18a which is actual loading information from the shipping company B3, and to transmit this information 18a to the brokerage department B1, Receive the issuance request information 15a on B/L from the brokerage department B1, and the B/L issuance request information 19a is transmitted to the suitable shipping company B3, And a bill-of-lading issue processing means 19 to transmit the ocean freight payment information 19b to the suitable shipping company B3, and to transmit the ocean freight claim information 19c to the brokerage department B1, the inquiry information processing means 11 which manages the inquiry information from a buyer, and a contract information processing means 12 to manage contract information, A booking application processing means 13 to input the booking application information 13a and to transmit this information 13a to distribution-arm B-2, It comprises the shipping document preparing means 14 which performs shipping document creation processing, and the loading flotation request processing means 15 to input the issuance request of B/L and to transmit this information 15a to distribution-arm B-2, The unification of data and central control in connection with the inquiry, conclusion, the booking, document preparing, and B/L issue which is the work of a series of the export business in the brokerage department B1 are performed, And the unification of data and central control in connection with booking and B/L issue / loading achievement information management in a distribution arm are performed, and the increase in efficiency of business is further realized by using effectively the data between the 3 persons of the brokerage department B1, distribution-arm B-2, and the shipping company B3.

[Translation done.]

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EXAMPLE

[Example]Below, the example of the recording medium on the method of the booking management in the export business concerning this invention and the computer by which this method was written in which can be read, and its system is explained in detail, referring to drawings. Drawing 1 is the example of the booking management system in the export business concerning this invention a shown block diagram, and to drawing 1. It consists of the 1st control section (the 1st terminal) T1, the 2nd control section (the 2nd terminal) T2, and the 3rd control-section (3rd terminal) T3, Said 1st control section T1, the 2nd control section T2, and 3rd control-section T3 are provided with an entry-of-data device and an output unit, respectively, Mutually, by a communication line, said 1st control section T1, the 2nd control section T2, and 3rd control-section T3 are the booking management systems in the connected export business, and to said 1st control section T1. A booking application processing means 13 to transmit the application data 13a of a booking inputted into the 1st control section to the 2nd control section T2, The shipping document preparing means 14 which receives the loading actual results data 18a loaded based on the contract information inputted into the 1st control section, and the application data 13a of said booking from the 2nd control section T2, and draws up a shipping document, From the issuance request data of a bill of lading inputted into the 1st control section T1 based on said loading actual results data 18a, it is formed by bill-of-lading issuance request processing means 15 to transmit the issuance request data 15a of a bill of lading to the 2nd control section T2, and to said 2nd control section T2. A booking processing means 16 to receive the application data 13a of said booking from the 1st control section T1, and to transmit this data 13a to 3rd control-section T3, A loading achievement information processing means 18 to receive said loading actual results data 18a from 3rd control-section T3, and to transmit this data 18a to the 1st control section T1, A bill-of-lading issue processing means 19 to receive the issuance request data 15a of said bill of lading from the 1st control section T1, and to transmit this data 15a to 3rd control-section T3 is formed, A processing means 31 of the application data of a booking to receive and manage the application data 16a of said booking from the 2nd control section T2 in said 3rd control-section T3, A processing means 32 of loading actual results data to transmit the loading actual results data inputted from said 3rd control-section T3 to the 2nd control section T2, The booking management system in the export business in which the issue processing means 33 of the bill of lading which receives and processes the issuance request data 19a of said bill of lading from the 2nd control section T2 is formed is shown.

[0015]The booking confirmation data 17a reserved based on the application data 16a of said booking, It is inputted into 3rd control-section T3, and the transmitting means 34 of booking confirmation data which transmits this booking confirmation data 17a to the 2nd control section T2 is formed in said 3rd control-section T3, A booking notification information processing means 17 to receive said booking confirmation data 17a from 3rd control-section T3, and to transmit this data to the 1st control section T1 is formed in the 2nd control section T2, The booking management system in the export business processed by an account booking application processing means 13 of back to front by which said booking confirmation data 17a was received from the 2nd control section T2 is shown in the 1st control section T1.

[0016]The booking management system in the export business on which the transportation

information processing means 20 classified by destination which processes the transportation cost data 20a classified by destination sent from 3rd control-section T3 is formed in said 2nd control section T2 is shown. The booking management system in the export business on which the inquiry information processing means 11 which calculates ocean freight based on the inquiry data inputted into the 1st control section T1 and the transportation cost data 20a classified by destination obtained from said 2nd control section T2 is formed in said 1st control section T1 is shown.

[0017]Now, systematically, it consists of a brokerage department, a distribution arm, and a shipping company, and these sections have the 1st control section T1, the 2nd control section T2, and 3rd control-section T3, respectively, and each control section consists of systems of this invention so that the data of each organization may be managed. The data sent and received among organizations performs data exchange by the file transfer protocol through a network.

[0018]Below, each means to constitute this system is explained. In the inquiry information processing means 11, ocean freight is calculated based on the Freight information 20a classified by destination, and registration and management as profit information at the time of an inquiry are performed. By the contract information processing means 12, registration and management as profit information at the time of a contract are performed by extracting what resulted in conclusion among the above-mentioned inquiries, considering it as contract information, and inputting additional information.

[0019]By the booking application processing means 13, the request to registration and management, and the distribution arm of booking information is performed by extracting a required thing from the above-mentioned contract information, and inputting additional information. In the shipping document preparing means 14, automatic layout of a shipping document is performed based on the above-mentioned contract information, and a booking/notification information, and preparing various appearance further performs quick creation of a shipping document.

[0020]In the bill-of-lading issuance request processing means 15, the request to registration and management, and distribution-arm B-2 of B/L issuance request information is performed by extracting a required thing from the loading achievement information 18a, and inputting additional information. In the booking processing means 16, the booking application information 13a from a brokerage department is received, and registration and management of are done. Next, the suitable shipping company B3 is chosen, additional information is inputted, it transmits to a shipping company, and this information is registered and managed.

[0021]In the booking notification information processing means 17, the data of request-to-print-out-files application information which receives the booking notification information 17a from a shipping company, and has already been inputted is updated, and it registers and manages, and also transmits to the brokerage department B1. In the loading achievement information processing means 18, by receiving the loading achievement information 18a from the shipping company B3, and also inputting additional information, it transmits to the brokerage department B1, and registration and management of this information are performed.

[0022]In the bill-of-lading issue processing means 19, by receiving the B/L issuance request information 15a from the brokerage department B1, and inputting additional information, it transmits to a shipping company and registration and management of this information are performed. In the transportation information processing means 20 classified by destination, from a shipping company, reception, and registration and management are performed, and also the Freight information 20a classified by destination is transmitted to a brokerage department.

[0023]And the inquiry which is the business of a series [brokerage department] of export by each means 11-15 of a oneself section, Business, such as a contract, a booking, shipping document creation, and a B/L issuance request, is performed, and a distribution arm also performs business, such as processing of the booking application from a brokerage department, management of a loading track record, and processing of B/L issue, by each means 16-20. A shipping company performs business, such as processing of the booking from a distribution arm, management of loading achievement information, B/L issue, and payment of ocean freight.

[0024]Thus, this invention consists of the 1st control section, 2nd control section, and 3rd

control section, Said 1st control section, the 2nd control section, and the 3rd control section are provided with an entry-of-data device and an output unit, respectively, Said 1st control section, the 2nd control section, and the 3rd control section are the method of the booking management in the export business mutually connected by the communication line, or its system, The application data of a booking inputted into said 1st control section is transmitted to the 3rd control section via the 2nd control section, It is loaded based on the application data of said booking, and the loading actual results data inputted into the 3rd control section is transmitted to the 1st control section via the 2nd control section, Transmitting the issuance request data of a bill of lading inputted into the 1st control section to the 3rd control section via the 2nd control section, said 1st control section, the 2nd control section, and the 3rd control section have the same data.

[0025]Each means of this invention may be constituted from a computer program, and may be recorded on a recording medium so that read-out is possible. Namely, for the program for said 1st control section. The booking application down stream processing 13 which transmits the application data of a booking inputted into the 1st control section to the 2nd control section, The shipping document creation process 14 of receiving the loading actual results data loaded based on the contract information inputted into the 1st control section, and the application data of said booking from the 2nd control section, and drawing up a shipping document, The bill-of-lading issuance request down stream processing 15 which transmits the issuance request data of a bill of lading to the 2nd control section from the issuance request data of a bill of lading inputted into the 1st control section based on said loading actual results data is formed, The booking down stream processing 16 which the application data of said booking is received from the 1st control section in the program for said 2nd control section, and transmits this data to the 3rd control section, The loading achievement information down stream processing 18 which said loading actual results data is received from the 3rd control section, and transmits this data to the 1st control section, The bill-of-lading issue processing process 19 of receiving the issuance request data of said bill of lading from the 1st control section, and transmitting this data to the 3rd control section is established, The down stream processing 31 of the application data of a booking which receives and manages the application data of said booking from the 2nd control section in the program for said 3rd control section, The down stream processing 32 of loading actual results data which transmits the loading actual results data inputted from said 3rd control section to the 2nd control section, In order to make a computer perform a series of processings which consist of the issue processing process 33 of the bill of lading which receives and processes the issuance request data of said bill of lading from the 2nd control section, it may constitute from on the computer which recorded said each process as a recording medium which can be read.

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1]It is a figure showing the job flow of the booking management system in the export business of this invention.

[Description of Notations]

11 Inquiry information processing means

12 Contract information processing means

13 Booking application processing means

14 Shipping document preparing means

15 Bill-of-lading issuance request processing means

16 Booking processing means

17 Booking notification information processing means

18 Loading achievement information processing means

19 Bill-of-lading issue processing means

20 The transportation information processing means classified by destination

31 The processing means of the application data of a booking

32 The processing means of loading actual results data

33 The issue processing means of a bill of lading

34 The transmitting means of the confirmation data of a booking

[Translation done.]

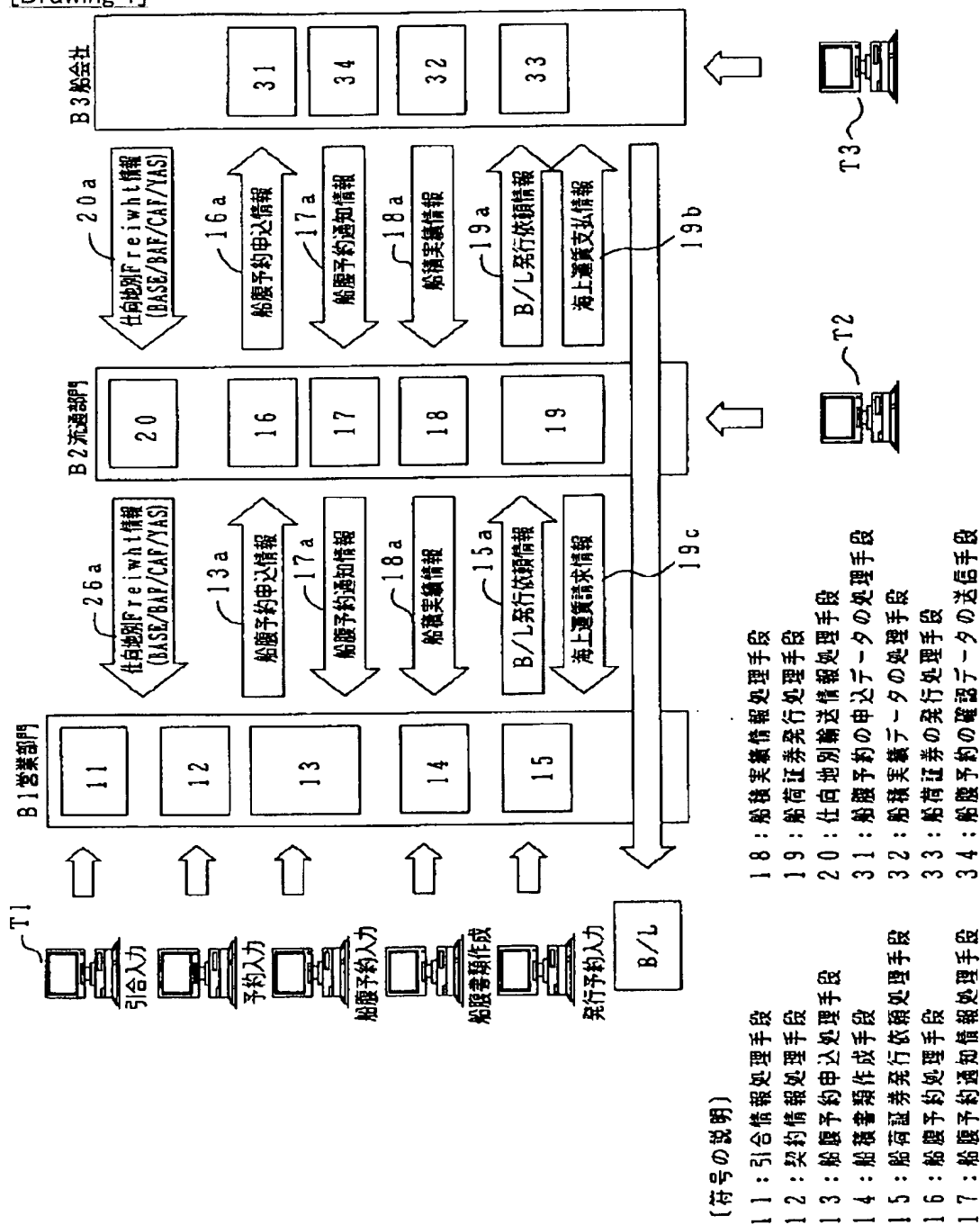
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DRAWINGS

[Drawing 1]



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(19) 日本国特許庁 (J P)

(12) 公開特許公報 (A)

(11) 特許出願公開番号

特開平11-175591

(43) 公開日 平成11年(1999) 7月 2日

(51) Int.Cl.⁶

G 0 6 F 17/60

識別記号

F I

G 0 6 F 15/21

Z

審査請求 有 請求項の数 8 O L (全 8 頁)

(21) 出願番号 特願平9-336723

(22) 出願日 平成9年(1997)12月8日

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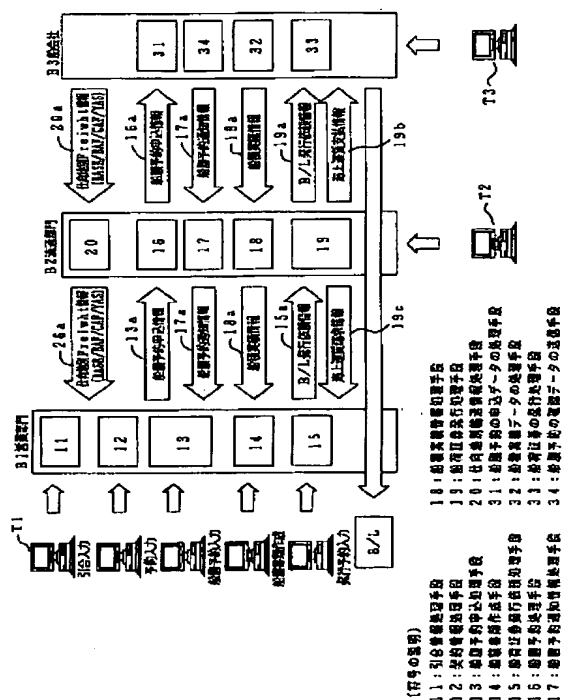
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(54) 【発明の名称】 輸出業務におけるブッキング管理システム、ブッキング管理方法及びブッキング管理方法を記録した記録媒体

(57) 【要約】

【課題】 輸出業務において、営業部門、物流部門、船会社の三者間で情報を共有することで業務の効率化を図った輸出業務におけるブッキング管理システムを提供する。

【解決手段】 第1の制御部と第2の制御部と第3の制御部とからなり、前記第1の制御部と第2の制御部と第3の制御部とは夫々データの入力装置と出力装置を備え、前記第1の制御部と第2の制御部と第3の制御部とは通信回線で接続された輸出業務におけるブッキング管理のシステムであって、前記第1の制御部に入力された船腹予約の申込データを第2の制御部を介して第3の制御部に送信し、前記船腹予約の申込データに基づき船積され、第3の制御部に入力された船積実績データを第2の制御部を介して第1の制御部に送信し、第1の制御部に入力された船荷証券の発行依頼データを第2の制御部を介して第3の制御部に送信し、前記第1の制御部と第2の制御部と第3の制御部とは同一のデータを持つようにしたことを特徴とする。



【特許請求の範囲】

【請求項 1】 第 1 の制御部と第 2 の制御部と第 3 の制御部とからなり、前記第 1 の制御部と第 2 の制御部と第 3 の制御部とは所定の回線を介して 1 つ又は複数のデータ入力装置と出力装置を備え、前記第 1 の制御部と第 2 の制御部と第 3 の制御部とは互いに通信回線で接続された輸出業務におけるブッキング管理システムであって、前記第 1 の制御部には、第 1 の制御部に入力された船腹予約の申込データを第 2 の制御部に送信する船腹予約申込処理手段と、

第 1 の制御部に入力された契約情報と前記船腹予約の申込データとに基づき船積された船積実績データを第 2 の制御部から受信し船積書類の作成を行う船積書類作成手段と、

前記船積実績データに基づき第 1 の制御部に入力された船荷証券の発行依頼データから船荷証券の発行依頼データを第 2 の制御部に送信する船荷証券発行依頼処理手段とが設けられ、

前記第 2 の制御部には、前記船腹予約の申込データを第 1 の制御部から受信すると共にこのデータを第 3 の制御部に送信する船腹予約処理手段と、

前記船積実績データを第 3 の制御部から受信すると共にこのデータを第 1 の制御部に送信する船積実績情報処理手段と、

前記船荷証券の発行依頼データを第 1 の制御部から受信すると共にこのデータを第 3 の制御部に送信する船荷証券発行処理手段とが設けられ、

前記第 3 の制御部には、前記船腹予約の申込データを第 2 の制御部から受信し管理する船腹予約の申込データの処理手段と、

前記第 3 の制御部から入力された船積実績データを第 2 の制御部に送信する船積実績データの処理手段と、

前記船荷証券の発行依頼データを第 2 の制御部から受信し処理する船荷証券の発行処理手段とが設けられていることを特徴とする輸出業務におけるブッキング管理システム。

【請求項 2】 前記船腹予約の申込データに基づき予約された船腹予約確認データは、第 3 の制御部に入力され、前記第 3 の制御部にはこの船腹予約確認データを第 2 の制御部に送信する船腹予約確認データの送信手段が設けられ、

第 2 の制御部には、第 3 の制御部から前記船腹予約確認データを受信すると共に第 1 の制御部にこのデータを送信する船腹予約通知情報処理手段が設けられ、

第 1 の制御部では、前記船腹予約確認データを第 2 の制御部から受信した後前記船腹予約申込処理手段で処理されることを特徴とする請求項 1 記載の輸出業務におけるブッキング管理システム。

【請求項 3】 前記第 2 の制御部には第 3 の制御部から送られてきた仕向地別輸送コストデータを処理する仕向

地別輸送情報処理手段が設けられていることを特徴とする請求項 1 又は 2 記載の輸出業務におけるブッキング管理システム。

【請求項 4】 前記第 1 の制御部には、第 1 の制御部に入力された引合データと前記第 2 の制御部からえられた仕向地別輸送コストデータに基づき海上運賃を計算する引合情報処理手段が設けられていることを特徴とする請求項 3 記載の輸出業務におけるブッキング管理システム。

10 【請求項 5】 前記第 1 の制御部には、第 1 の制御部に入力された契約データと前記引合情報処理手段で作成されたコストデータに基づき契約データの処理を行う契約情報処理手段が設けられていることを特徴とする請求項 4 記載の輸出業務におけるブッキング管理システム。

【請求項 6】 前記第 1 の制御部と第 2 の制御部と第 3 の制御部とはそれぞれ同一のデータを有することを特徴とする請求項 1 乃至 5 のいづれかに記載の輸出業務におけるブッキング管理システム。

【請求項 7】 第 1 の制御部と第 2 の制御部と第 3 の制御部とからなり、前記第 1 の制御部と第 2 の制御部と第 3 の制御部とは所定の回線を介して 1 つ又は複数のデータ入力装置と出力装置を備え、前記第 1 の制御部と第 2 の制御部と第 3 の制御部とは互いに通信回線で接続された輸出業務におけるブッキング管理の方法であって、前記第 1 の制御部に入力された船腹予約の申込データを第 2 の制御部を介して第 3 の制御部に送信し、前記船腹予約の申込データに基づき船積され、第 3 の制御部に入力された船積実績データを第 2 の制御部を介して第 1 の制御部に送信し、

30 第 1 の制御部に入力された船荷証券の発行依頼データを第 2 の制御部を介して第 3 の制御部に送信し、前記第 1 の制御部と第 2 の制御部と第 3 の制御部とはそれぞれ同一のデータを持つようにしたことを特徴とする輸出業務におけるブッキング管理の方法。

【請求項 8】 第 1 の制御部と第 2 の制御部と第 3 の制御部とからなり、前記第 1 の制御部と第 2 の制御部と第 3 の制御部とは所定の回線を介して 1 つ又は複数のデータ入力装置と出力装置を備え、前記第 1 の制御部と第 2 の制御部と第 3 の制御部とは互いに通信回線で接続された輸出業務におけるブッキング管理システムのコンピュータプログラムを記録した記録媒体であって、

前記第 1 の制御部用のプログラムには、第 1 の制御部に入力された船腹予約の申込データを第 2 の制御部に送信する船腹予約申込工程と、

第 1 の制御部に入力された契約情報と前記船腹予約の申込データとに基づき船積された船積実績データを第 2 の制御部から受信し船積書類の作成を行う船積書類作成工程と、

前記船積実績データに基づき第 1 の制御部に入力された船荷証券の発行依頼データから船荷証券の発行依頼デー

タを第2の制御部に送信する船荷証券発行依頼処理工程とが設けられ、

前記第2の制御部用のプログラムには、前記船腹予約の申込データを第1の制御部から受信すると共にこのデータを第3の制御部に送信する船腹予約処理工程と、前記船積実績データを第3の制御部から受信すると共にこのデータを第1の制御部に送信する船積実績情報処理工程と、

前記船荷証券の発行依頼データを第1の制御部から受信すると共にこのデータを第3の制御部に送信する船荷証券発行処理工程とが設けられ、

前記第3の制御部用のプログラムには、前記船腹予約の申込データを第2の制御部から受信し管理する船腹予約の申込データの処理工程と、

前記第3の制御部から入力された船積実績データを第2の制御部に送信する船積実績データの処理工程と、

前記船荷証券の発行依頼データを第2の制御部から受信し処理する船荷証券の発行処理工程からなる一連の処理をコンピュータに実行させるために前記各工程を記録したことを特徴とする輸出業務におけるブッキング管理方法を記録した記録媒体。

【発明の詳細な説明】

【0001】

【発明の属する技術分野】本発明は、輸出業務におけるブッキング管理の方法、この方法が書き込まれたコンピュータ上で読み出し可能な記録媒体及びそのシステムに係わり、特に、営業部門と物流部門とを持つ会社の船会社との情報交換、情報の一元化管理に好適な輸出業務におけるブッキング管理の方法及びそのシステムに関する。

【0002】

【従来の技術】従来、この種の業務に関しては船会社自体の古い体質等もあり、システム化が非常に遅れており、仮にシステム化されていたとしても輸出業務の一部のみをサポートするものでしかなかった。特開昭63-241656号公報及び特開昭62-263591号公報では複雑な海上運賃計算をデータベースとして蓄積することで、これを簡易化しているが、これらの技術は全体の輸出業務から見れば非常に限られた部分の業務の簡易化であり、輸出業務全体をフォローするものではない。また、特開昭63-251238号公報では同様に複雑な船積書類作成をデータベース化し、船積書類を自動作成する技術について説明しているが、これも同様に書類作成という一部の業務の中だけのシステム化であり、他の業務とはリンクしていない。

【0003】こうした従来技術では、各個別の業務の中だけはシステム化されていても他の業務とリンクしていないため、他の業務は手作業で行うか、もしくはシステム化されていても情報が一元化されていないために、同一データを多くの部門で二重、三重に入力するという問

題が発生している。こうした従来技術の欠点は、輸出業務自体が複雑であるために個々の業務が分業化され、全体の業務を理解している人が少ないために、欠点として認識されにくかったものと思われる。

【0004】また、仮に社内業務のシステム化にある程度成功したとしても、社外に目を向ければお互いに同じようなデータを持っており、それを相互に利用し合えば業務の大幅な効率化が実現できるにも拘わらず、自社のシステムは自社内だけで利用し、社外への連絡等は手作業、もしくは、別のシステムを利用するため、再度データを入力しなければならないという繁雑さがあった。

【0005】即ち、上記した従来の輸出管理業務では、営業部門においては個々の業務が独立してシステム化されているためデータの再利用ができるにも拘わらず、同じデータを二重入力、三重に入力しており、更に物流部門においても同様に営業部門とは独立して業務がシステム化されているため、両部門間でのデータの共有が行われていないため、一連の輸出業務が個々に独立してしまい、データの関連性が無くデータの再利用が行われていないという欠点があった。

【0006】更に、船会社とのデータ交換が殆ど行われていないことと、仮に行われていたとしても上記のような個々に独立したシステムとはデータの関連性が無いために、結局社外のシステムとインターフェースをとる業務では、再度データの入力を行っているため、社外のシステムとのデータの関連性が全く無くデータの再利用が行われていないという欠点があった。

【0007】

【発明が解決しようとする課題】本発明の目的は、上記した従来技術の欠点を改良し、特に、輸出業務に係る一連の業務において、社内／社外での情報・データを共有して業務の効率化を以下の観点から行う新規な輸出業務におけるブッキング管理の方法及びそのシステムを提供するものである。

【0008】即ち、(イ) 営業部門の引合・契約・船腹予約・船積書類作成・B/L(船荷証券)発行依頼といった一連の業務において、データの二重入力を廃止し、上工程で入力した情報を下工程で有効利用を行う。

(ロ) 物流部門の船腹予約・船積実績管理・B/L発行・海上運賃支払といった一連の業務において情報の有効利用を行う。

(ハ) 船会社とのデータ交換を行い、上記業務における情報の有効活用を行う。

【0009】本発明の他の目的は、輸出業務におけるブッキング管理の方法が書き込まれたコンピュータ上で読み出し可能な記録媒体を提供するものである。

【0010】

【課題を解決するための手段】本発明は上記した目的を達成するため、基本的には、以下に記載されたような技術構成を採用するものである。即ち、本発明に係わる輸

出業務におけるブッキング管理システムの第 1 態様は、第 1 の制御部と第 2 の制御部と第 3 の制御部とからなり、前記第 1 の制御部と第 2 の制御部と第 3 の制御部とは所定の回線を介して 1 つ又は複数のデータ入力装置と出力装置を備え、前記第 1 の制御部と第 2 の制御部と第 3 の制御部とは互いに通信回線で接続された輸出業務におけるブッキング管理システムであって、前記第 1 の制御部には、第 1 の制御部に入力された船腹予約の申込データを第 2 の制御部に送信する船腹予約申込処理手段と、第 1 の制御部に入力された契約情報と前記船腹予約の申込データとに基づき船積された船積実績データを第 2 の制御部から受信し船積書類の作成を行う船積書類作成手段と、前記船積実績データに基づき第 1 の制御部に入力された船荷証券の発行依頼データから船荷証券の発行依頼データを第 2 の制御部に送信する船荷証券発行依頼処理手段とが設けられ、前記第 2 の制御部には、前記船腹予約の申込データを第 1 の制御部から受信すると共にこのデータを第 3 の制御部に送信する船腹予約処理手段と、前記船積実績データを第 3 の制御部から受信すると共にこのデータを第 1 の制御部に送信する船積実績情報処理手段と、前記船荷証券の発行依頼データを第 1 の制御部から受信すると共にこのデータを第 3 の制御部に送信する船荷証券発行処理手段とが設けられ、前記第 3 の制御部には、前記船腹予約の申込データを第 2 の制御部から受信し管理する船腹予約の申込データの処理手段と、前記第 3 の制御部から入力された船積実績データを第 2 の制御部に送信する船積実績データの処理手段と、前記船荷証券の発行依頼データを第 2 の制御部から受信し処理する船荷証券の発行処理手段とが設けられている輸出業務におけるブッキング管理システムであり、又、第 2 態様は、前記船腹予約の申込データに基づき予約された船腹予約確認データは、第 3 の制御部に入力され、前記第 3 の制御部にはこの船腹予約確認データを第 2 の制御部に送信する船腹予約確認データの送信手段が設けられ、第 2 の制御部には、第 3 の制御部から前記船腹予約確認データを受信すると共に第 1 の制御部にこのデータを送信する船腹予約通知情報処理手段が設けられ、第 1 の制御部では、前記船腹予約確認データを第 2 の制御部から受信した後前記船腹予約申込処理手段で処理される輸出業務におけるブッキング管理システムであり、又、第 3 態様は、前記第 2 の制御部には第 3 の制御部から送られてきた仕向地別輸送コストデータを処理する仕向地別輸送情報処理手段が設けられている輸出業務におけるブッキング管理システムであり、又、第 4 態様は、前記第 1 の制御部には、第 1 の制御部に入力された引合データと前記第 2 の制御部からえられた仕向地別輸送コストデータに基づき海上運賃を計算する引合情報処理手段が設けられている輸出業務におけるブッキング管理システムであり、又、第 5 態様は、前記第 1 の制御部には、第 1 の制御部に入力された契約データと前記引合情

報処理手段で作成されたコストデータに基づき契約データの処理を行う契約情報処理手段が設けられている輸出業務におけるブッキング管理システムであり、又、第 6 態様は、前記第 1 の制御部と第 2 の制御部と第 3 の制御部とはそれぞれ同一のデータを有することを特徴とする輸出業務におけるブッキング管理システムである。

【0011】又、本発明に係る輸出業務におけるブッキング管理の方法の態様は、第 1 の制御部と第 2 の制御部と第 3 の制御部とからなり、前記第 1 の制御部と第 2 の制御部と第 3 の制御部とは所定の回線を介して 1 つ又は複数のデータ入力装置と出力装置を備え、前記第 1 の制御部と第 2 の制御部と第 3 の制御部とは互いに通信回線で接続された輸出業務におけるブッキング管理の方法であって、前記第 1 の制御部に入力された船腹予約の申込データを第 2 の制御部を介して第 3 の制御部に送信し、前記船腹予約の申込データに基づき船積され、第 3 の制御部に入力された船積実績データを第 2 の制御部を介して第 1 の制御部に送信し、第 1 の制御部に入力された船荷証券の発行依頼データを第 2 の制御部を介して第 3 の制御部に送信し、前記第 1 の制御部と第 2 の制御部と第 3 の制御部とはそれぞれ同一のデータを持つようにしたものである。

【0012】又、本発明に係る輸出業務におけるブッキング管理システムのコンピュータプログラムを記録した記録媒体の態様は、第 1 の制御部と第 2 の制御部と第 3 の制御部とからなり、前記第 1 の制御部と第 2 の制御部と第 3 の制御部とは所定の回線を介して 1 つ又は複数のデータ入力装置と出力装置を備え、前記第 1 の制御部と第 2 の制御部と第 3 の制御部とは互いに通信回線で接続された輸出業務におけるブッキング管理システムのコンピュータプログラムを記録した記録媒体であって、前記第 1 の制御部用のプログラムには、第 1 の制御部に入力された船腹予約の申込データを第 2 の制御部に送信する船腹予約申込処理工程と、第 1 の制御部に入力された契約情報と前記船腹予約の申込データとに基づき船積された船積実績データを第 2 の制御部から受信し船積書類の作成を行う船積書類作成工程と、前記船積実績データに基づき第 1 の制御部に入力された船荷証券の発行依頼データから船荷証券の発行依頼データを第 2 の制御部に送信する船荷証券発行依頼処理工程とが設けられ、前記第 2 の制御部用のプログラムには、前記船腹予約の申込データを第 1 の制御部から受信すると共にこのデータを第 3 の制御部に送信する船腹予約処理手段と、前記船積実績データを第 3 の制御部から受信すると共にこのデータを第 1 の制御部に送信する船積実績情報処理工程と、前記船荷証券の発行依頼データを第 1 の制御部から受信すると共にこのデータを第 3 の制御部に送信する船荷証券発行処理工程とが設けられ、前記第 3 の制御部用のプログラムには、前記船腹予約の申込データを第 2 の制御部から受信し管理する船腹予約の申込データの処理工程

と、前記第3の制御部から入力された船積実績データを第2の制御部に送信する船積実績データの処理工程と、前記船荷証券の発行依頼データを第2の制御部から受信し処理する船荷証券の発行処理工程とが設けられているものである。

【0013】

【発明の実施の形態】営業部門B1／物流部門B2／船会社B3が相互に接続されデータの送受信が可能なシステムにおいて、船会社B3からFreight情報20aを受信し、営業部門B1に採算計算のベースとなる仕向地別のFreight情報20aを提供する仕向地別輸送情報処理手段20と、営業部門B1からの船腹予約申込情報13aを受信して適切な船会社B3に船腹予約申込情報16aを送信する船腹予約処理手段16と、船腹予約申込に対する回答である船腹予約通知情報17aを船会社B3から受信してこの情報17aを営業部門B1に送信する船腹予約通知情報処理手段17と、船会社B3からの実際の船積情報である船積実績情報18aを受信してこの情報18aを営業部門B1に送信する船積実績情報処理手段18と、B/Lの発行依頼情報15aを営業部門B1から受信し、適切な船会社B3にB/L発行依頼情報19aを送信し、かつ、海上運賃支払情報19bを適切な船会社B3に送信し、営業部門B1に海上運賃請求情報19cを送信する船荷証券発行処理手段19と、パイヤからの引合情報を管理する引合情報処理手段11と、契約情報を管理する契約情報処理手段12と、船腹予約申込情報13aを入力しこの情報13aを物流部門B2へ送信する船腹予約申込処理手段13と、船積書類作成処理を行う船積書類作成手段14、B/Lの発行依頼を入力しこの情報15aを物流部門B2へ送信する船積証券発行依頼処理手段15から構成され、営業部門B1における輸出業務の一連の作業である引合・成約・船腹予約・書類作成・B/L発行に関わるデータの一元化と集中管理を行い、かつ、物流部門での船腹予約・B/L発行・船積実績情報管理に関わるデータの一元化と集中管理を行い、更に、営業部門B1と物流部門B2と船会社B3との三者間でのデータの有効利用を行うことによって業務の効率化を実現する。

【0014】

【実施例】以下に、本発明に係わる輸出業務におけるブッキング管理の方法、この方法が書き込まれたコンピュータ上で読み出し可能な記録媒体及びそのシステムの具体例を図面を参照しながら詳細に説明する。図1は、本発明に係わる輸出業務におけるブッキング管理システムの具体例を示すブロック図であって、図1には、第1の制御部（第1の端末）T1と第2の制御部（第2の端末）T2と第3の制御部（第3の端末）T3とからなり、前記第1の制御部T1と第2の制御部T2と第3の制御部T3とは夫々データの入力装置と出力装置を備え、前記第1の制御部T1と第2の制御部T2と第3の

制御部T3とは互いに通信回線で接続された輸出業務におけるブッキング管理システムであって、前記第1の制御部T1には、第1の制御部に入力された船腹予約の申込データ13aを第2の制御部T2に送信する船腹予約申込処理手段13と、第1の制御部に入力された契約情報と前記船腹予約の申込データ13aとに基づき船積された船積実績データ18aを第2の制御部T2から受信し船積書類の作成を行う船積書類作成手段14と、前記船積実績データ18aに基づき第1の制御部T1に入力された船荷証券の発行依頼データから船荷証券の発行依頼データ15aを第2の制御部T2に送信する船荷証券発行依頼処理手段15とが設けられ、前記第2の制御部T2には、前記船腹予約の申込データ13aを第1の制御部T1から受信すると共にこのデータ13aを第3の制御部T3に送信する船腹予約処理手段16と、前記船積実績データ18aを第3の制御部T3から受信すると共にこのデータ18aを第1の制御部T1に送信する船積実績情報処理手段18と、前記船荷証券の発行依頼データ15aを第1の制御部T1から受信すると共にこのデータ15aを第3の制御部T3に送信する船荷証券発行処理手段19とが設けられ、前記第3の制御部T3には、前記船腹予約の申込データ16aを第2の制御部T2から受信し管理する船腹予約の申込データの処理手段31と、前記第3の制御部T3から入力された船積実績データを第2の制御部T2に送信する船積実績データの処理手段32と、前記船荷証券の発行依頼データ19aを第2の制御部T2から受信し処理する船荷証券の発行処理手段33とが設けられている輸出業務におけるブッキング管理システムが示されている。

【0015】又、前記船腹予約の申込データ16aに基づき予約された船腹予約確認データ17aは、第3の制御部T3に入力され、前記第3の制御部T3にはこの船腹予約確認データ17aを第2の制御部T2に送信する船腹予約確認データの送信手段34が設けられ、第2の制御部T2には、第3の制御部T3から前記船腹予約確認データ17aを受信すると共に第1の制御部T1にこのデータを送信する船腹予約通知情報処理手段17が設けられ、第1の制御部T1には、前記船腹予約確認データ17aを第2の制御部T2から受信した後前記船腹予約申込処理手段13で処理される輸出業務におけるブッキング管理システムが示されている。

【0016】又、前記第2の制御部T2には第3の制御部T3から送られてきた仕向地別輸送コストデータ20aを処理する仕向地別輸送情報処理手段20が設けられている輸出業務におけるブッキング管理システムが示されている。又、前記第1の制御部T1には、第1の制御部T1に入力された引合データと前記第2の制御部T2からえられた仕向地別輸送コストデータ20aに基づき海上運賃を計算する引合情報処理手段11が設けられている輸出業務におけるブッキング管理システムが示され

ている。

【0017】さて、本発明のシステムでは、組織的には、営業部門と物流部門と船会社とからなり、これらの部門は、夫々第1の制御部T1、第2の制御部T2、第3の制御部T3を持ち、各制御部は各組織のデータを管理するように構成している。組織間で送受されるデータは、ネットワークを介したファイル転送プロトコルでデータ交換を行う。

【0018】以下に、本システムを構成する各手段について説明する。引合情報処理手段11では仕向地別 Freight 情報20aをベースに海上運賃の計算を行い、引合時の採算情報としての登録・管理を行う。又、契約情報処理手段12では上記引合のうちで成約に至ったものを抽出して契約情報とし追加の情報を入力することにより契約時の採算情報としての登録・管理を行う。

【0019】又、船腹予約申込処理手段13では上記契約情報から必要なものを抽出し追加の情報を入力することにより、船腹予約情報の登録・管理と物流部門への依頼を行う。又、船積書類作成手段14では、上記契約情報と船腹予約／通知情報をベースに船積書類の自動レイアウトを行い、さらに各種体裁を整えることで船積書類の迅速作成を行う。

【0020】又、船荷証券発行依頼処理手段15では、船積実績情報18aから必要なものを抽出し追加の情報を入力することにより、B/L発行依頼情報の登録・管理と物流部門B2への依頼を行う。又、船腹予約処理手段16では、営業部門からの船腹予約申込情報13aを受信して登録・管理する。次に適切な船会社B3を選択して追加の情報を入力し船会社へ送信し、この情報を登録・管理する。

【0021】又、船腹予約通知情報処理手段17では、船会社からの船腹予約通知情報17aを受信して既に入力されている予約申込情報のデータを更新し登録・管理し、更に営業部門B1へ送信を行う。又、船積実績情報処理手段18では、船会社B3からの船積実績情報18aを受信し、更に追加情報を入力することにより営業部門B1に送信し、この情報の登録・管理を行う。

【0022】又、船荷証券発行処理手段19では、営業部門B1からのB/L発行依頼情報15aを受信し追加の情報を入力することにより船会社へ送信し、この情報の登録・管理を行う。又、仕向地別輸送情報処理手段20では、船会社より仕向地別 Freight 情報20aを受信、登録・管理を行い、更に営業部門に送信を行う。

【0023】そして、営業部門は自分部門の各手段11～15により輸出の一連の業務である引合、契約、船腹予約、船積書類作成、B/L発行依頼といった業務を行い、物流部門もまた、各手段16～20により営業部門からの船腹予約申込の処理、船積実績の管理、B/L発行の処理といった業務を行う。更に、船会社は物流部門

からの船腹予約の処理と船積実績情報の管理、B/L発行、海上運賃の入金といった業務を行う。

【0024】このように、本発明は、第1の制御部と第2の制御部と第3の制御部とからなり、前記第1の制御部と第2の制御部と第3の制御部とは夫々データの入力装置と出力装置を備え、前記第1の制御部と第2の制御部と第3の制御部とは互いに通信回線で接続された輸出業務におけるブッキング管理の方法又はそのシステムであって、前記第1の制御部に入力された船腹予約の申込データを第2の制御部を介して第3の制御部に送信し、前記船腹予約の申込データに基づき船積され、第3の制御部に入力された船積実績データを第2の制御部を介して第1の制御部に送信し、第1の制御部に入力された船荷証券の発行依頼データを第2の制御部を介して第3の制御部に送信し、前記第1の制御部と第2の制御部と第3の制御部とは同一のデータを持つようにしたものである。

【0025】又、本発明の各手段をコンピュータプログラムで構成し、記録媒体に読み出し可能に記録しても良い。即ち、前記第1の制御部用のプログラムには、第1の制御部に入力された船腹予約の申込データを第2の制御部に送信する船腹予約申込処理工程13と、第1の制御部に入力された契約情報と前記船腹予約の申込データとに基づき船積された船積実績データを第2の制御部から受信し船積書類の作成を行う船積書類作成工程14と、前記船積実績データに基づき第1の制御部に入力された船荷証券の発行依頼データから船荷証券の発行依頼データを第2の制御部に送信する船荷証券発行依頼処理工程15とが設けられ、前記第2の制御部用のプログラムには、前記船腹予約の申込データを第1の制御部から受信すると共にこのデータを第3の制御部に送信する船腹予約処理工程16と、前記船積実績データを第3の制御部から受信すると共にこのデータを第1の制御部に送信する船積実績情報処理工程18と、前記船荷証券の発行依頼データを第1の制御部から受信すると共にこのデータを第3の制御部に送信する船荷証券発行処理工程19とが設けられ、前記第3の制御部用のプログラムには、前記船腹予約の申込データを第2の制御部から受信し管理する船腹予約の申込データの処理工程31と、前記第3の制御部から入力された船積実績データを第2の制御部に送信する船積実績データの処理工程32と、前記船荷証券の発行依頼データを第2の制御部から受信し処理する船荷証券の発行処理工程33とからなる一連の処理をコンピュータに実行させるために前記各工程を記録したコンピュータ上で読み出し可能な記録媒体として構成しても良い。

【0026】

【発明の効果】本発明は上述のように構成されたものであるから以下のような効果を奏する。第1の効果は、社内・社外で入力された情報を有効に再利用することで全

体の業務の効率化が実現できることと、入力ミス等による修正の手間を減らせることである。

【0027】その理由は、全てのデータが社内・社外で連携しており同じようなデータの二重入力、三重入力といった無駄な作業が不要になるからである。第2の効果は、過去のデータを有効活用することによって、業務の効率化ができることである。その理由は、過去に入力したデータを呼び出して修正が必要な部分（船積時期、数量、金額等）のみ入力を行うことで、入力ミスの低減と無駄な入力作業が不要になるからである。

【0028】第3の効果は、過去の実績の分析を行うことにより、今後の販売戦略等の立案に大いに役立つことである。その理由は、引合から実際の船積までの情報が一元管理されているために、ひとつの取引で考えれば、損益が各種の要素（市況、為替レート等）によってどう変化したかが把握でき、過去の同様の取引との比較もできるためである。また、特定の仕向国毎に分析すれば、マーケット毎の特徴も把握でき、しかも過去の情報と比較することにより、時系列での分析も可能なためであ

る。

【図面の簡単な説明】

【図1】本発明の輸出業務におけるブッキング管理システムの業務フローを示す図である。

【符号の説明】

- 1 1 引合情報処理手段
- 1 2 契約情報処理手段
- 1 3 船腹予約申込処理手段
- 1 4 船積書類作成手段
- 10 1 5 船荷証券発行依頼処理手段
- 1 6 船腹予約処理手段
- 1 7 船腹予約通知情報処理手段
- 1 8 船積実績情報処理手段
- 1 9 船荷証券発行処理手段
- 2 0 仕向地別輸送情報処理手段
- 3 1 船腹予約の申込データの処理手段
- 3 2 船積実績データの処理手段
- 3 3 船荷証券の発行処理手段
- 3 4 船腹予約の確認データの送信手段

【図1】

